## 11.1310(P0981)

## **CLAIMS**

## What is claimed is:

10

25

- An apparatus for inspection and review of a substrate, the apparatus
  comprising:
  - a first subsystem for inspecting said substrate;
  - a processor for identifying regions of said substrate for review; and a second subsystem for reviewing at least a portion of said regions.
  - 2. The apparatus of claim 1, wherein said first subsystem comprises an electron beam microscope.
    - 3. The apparatus of claim 1, wherein said second subsystem comprises an electron beam microscope.
  - 4. The apparatus of claim 1, wherein both said first and second subsystems each comprises an electron beam microscope.
- 5. The apparatus of claim 4, wherein said first subsystem and said second subsystem share one or more electron optical elements in common.
  - 6. The apparatus of claim 5, wherein said first subsystem and said second subsystem share substantially all electron optical elements in common.
- 7. The apparatus of claim 4, wherein said portion is reviewed at a second condition differing from a first condition under which said portion is inspected.
  - 8. The apparatus of claim 4, wherein said portion is reviewed at a second condition differing from a first condition under which said portion is inspected.
  - The apparatus of claim 8, wherein said first condition and said second condition differ from one another with regard to at least one parameter selected from the group including: true perspective; apparent perspective; magnification; and contrast.
  - 10. The apparatus of claim 1, wherein said first subsystem comprises a LEEM.
  - 11. The apparatus of claim 1, wherein said second subsystem comprises a LEEM.
- 12. The apparatus of claim 1, wherein both said first and second subsystems each comprises a LEEM.

## 11.1310(P0981)

10

15

20

- 13. The apparatus of claim 12, wherein said first subsystem and said second subsystem share one or more electron optical elements in common.
- 14. The apparatus of claim 13, wherein said first subsystem and said second subsystem share substantially all electron optical elements in common.
- 5 15. The apparatus of claim 12, wherein said portion is reviewed at a second condition differing from a first condition under which said portion is inspected.
  - 16. The apparatus of claim 15, wherein said first condition and said second condition differ from one another with regard to at least one parameter selected from the group including: true perspective; apparent perspective; magnification; and contrast.
  - 17. A method for inspection and review of a substrate, the method comprising: inspecting said substrate in an apparatus to generate inspection data; processing the inspection data to identify regions of said substrate for review; and
    - reviewing at least a portion of said regions in the apparatus.
  - 18. The method of claim 17, wherein the inspecting is performed using a first subsystem of the apparatus, and wherein the reviewing is performed using a second subsystem of the apparatus.
  - 19. The method of claim 18, wherein said portion is reviewed at a second condition differing from a first condition under which said portion is inspected.
    - 20. The method of claim 19, wherein said first condition and said second condition differ from one another with regard to at least one parameter selected from the group including: true perspective; apparent perspective; magnification; and contrast.